8 (2)

SOV/112-58-3-4509

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1958, Nr 3, p 159 (USSR)

AUTHOR: Fremke, A. V., Semenov, Ye. I., and Zhilin, V. N.

TITLE: Amplitude-Type Cyclic Telemeter (Amplitudnaya tsiklicheskaya teleizmeritel'naya sistema)

PERIODICAL: Izv. Leningr. elektrotekhn. in-ta, 1957, Nr 29, pp 45-51

ABSTRACT: A multichannel telemeter is described that has time division of channels and amplitude modulation in each of them. Block diagrams of the systems with electromechanical and electron primary elements are presented, as well as simplified circuit diagrams of individual units. Basic error of the system (without the primary-element error) is $\frac{1}{2}$ 2 to $2\frac{1}{2}\%$.

V. A. K.

Card 1/1

USCOMM-DC-61,057

"Data-transformers for automatized digital measuring devices" (Section 1)

report submitted for Heasurement and Automation, Scientific Society for (Hungarian)
Entl. Measurements Conference - Budapest, Hungary, 2h-30 Nov 59

FREMES, A.V., doktor tekhn.nauk, prof.

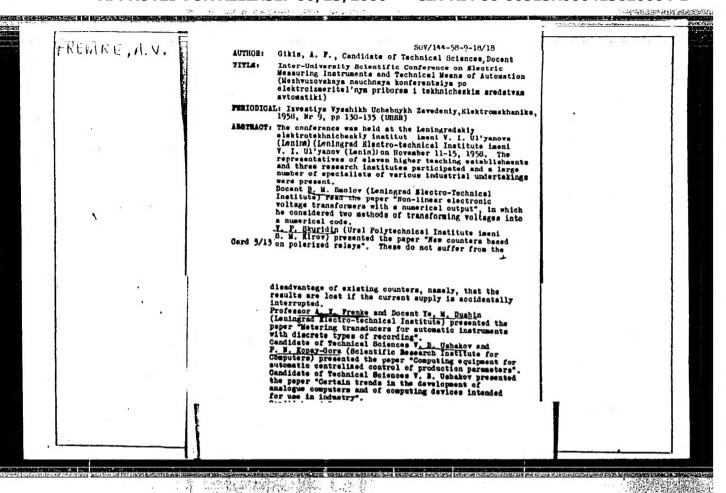
Theory of the operation of electromagnetic instruments under
Theory of the operation of electromagnetic instruments under
pulsed conditions. Izv. vys. ucheb. zav.; pri. no.1:36-40 '58.

(MIRA 11:5)

1. Leningradekiy elektrotekhnicheskiy institut im. V.I. Ul'yanova

(Lenina).

(Electric instruments)



.7(7)

PHASE I BOOK EXPLOIATION

SOV/1709

Fremke, Andrey Vladimirovich

Teleizmereniya (Telemetering) Moscow, Gosenergoizdat, 1958. 304 p. 25,000 copies printed.

Ed.: Ye. M. Dushin; Tech. Ed.: A.A. Zabrodina.

PURPOSE: This is a textbook for students taking a course in telemetering at power- and electrical-engineering vuzes and specializing in automatic control, telemechanics and electrical measurements. The book was approved as a textbook by the Ministry of Higher Education, USSR. It may also be useful to engineering and technical personnel working with remote control equipment.

COVERAGE: The author discusses basic problems in telemetering and describes the instruments, circuits, and characteristics, of remote control systems. Communication channels and radio telemetering are

Card 1./7

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620004-1"

Telemetering

SOV/1709

not covered in the text. For proper understanding of the material, a knowledge of general engineering and electrical engineering subjects as well as applied electronics and pulse technique is a prerequisite. Section 52 of Chapter 9 was written by Ye. I. Semenov and Section 53 of Chapter 9 by V.I. Stepanov. The author thanks Professor V.O. Artyunov for providing some of the material discussed in the book. He also thanks V.V. Sidel'nikov, L.S. Shugayev and V.D. Ambrosovich for reviewing the manuscript. There are 48 references of which 36 are Soviet, 6 English and 6 German.

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JP/ksv 6-6-59 Card 7/7		

SOV/146-1-1-0/22

Fremke, A.V., Doctor of Technical Sciences, Professor AUTHOR:

Working Theory of an Electro-Magnetic Levice Luring Pulse Operation (Teoriya raboty magnito-elektriches-TITLE:

kogo pribora v impul'snom rezhime)

Izvestiya vysshikh uchebnykh zavedeniy -PERIODICAL:

Priborostroyeniye, 1958, Nr 1, pp 36-40 (USSR)

The paper discusses the theory for the movement of the ABSTRACT:

mobile part of an electro-magnetic device, connected to a circuit with square current pulses. The problem was solved by the method of successive integration of differential equations, which describe the movement of a mobile part of the device during the pulses and

intervals. Equations were worked out for 3 cases with varying degree of damping $(\beta):1$ $\beta > 1$;

2) β = 1; 3) β < 1. The example shown here indicates that the perceptible vibration of the mobile part (& = approx. 0.5%) occurs at a pulse frequency of 10

cycles and pulse series m = 0.5, even with critical Card 1/2

SOV/146-1-1-6/22 Working Theory of an Electro-Magnetic Device During Pulse Operation

> damping of the device ($\beta = 1$) and a circular oscillating frequency of the mobile part of ω_0 = 2.27 1/sec. The formulae show that the vibration amplitude of the mobile part of the device can be reduced by a decrease of ω_{o} or by a considerable increase of $oldsymbol{eta}$. There are £ graphs, 1 circuit diagram and 4 Soviet references.

ASSOCIATION: Leningradskiy electrotekhnicheskiy institut imeni V.I. Ulyanova (Lenin). (Leningrad Electrical Engineering

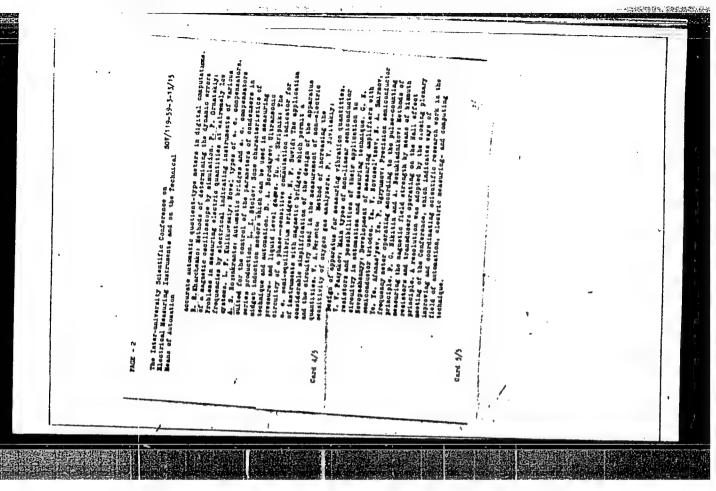
Institute imeni V.I.Ulyanov (Lenin))

Card 2/2 '

KORNDORF, Sergey Ferdinandovich; FRENKE, A.V., prof., doktor tekhn.nauk, retsenzent; STRIZHEVSKIY, T.V., red.; AKIMOVA, A.G., red.izd-ve; EL'KIND, V.D., tekhn.red.

[Principles of electric measurement, electronic engineering and electronic automatic control in instrument manufacture] Osnovy elektroizmerenii, elektronnoi tekhniki i elektroavtomatiki v priborostroenii. Moskva, Gos.nauchno-tekhn.izd-vo mashinostr. lit-ry, 1959. 462 p. (MIRA 12:10) (Electric measurements) (Automatic control)

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9 (7), 9 (6)

AUTHORS:

Dushin, Ye. M., Candidate of Technical SOV/119-59-8-3/15 Sciences, Fremke, A. V., Doctor of Technical Sciences

TITLE:

Measurement Transformers with Unified Signal

PERIODICAL:

Priborostroyeniye, 1959, Nr 8, pp 7-11 (USSR)

ABSTRACT:

In the introduction the basic mode of operation of electric measuring systems is briefly described, and the demands which must be made on such circuits are enumerated: 1. Independent of the quantity to be measured the initial signals of the measurement transformer should be uniform. 2. A linear characteristic of measurement transformers is required. 3. It must be possible to connect them to automatic circuits. 4. The construction must be suited for use in masses. Formula (1) expresses the error of the signal in %, and possible causes for the signal error are given. The following quantities may be used as signals: 1. The voltage or the amperage of a direct current. 2. The frequency of alternating current. 3. Direct current pulses. In the case of the latter, both the pulse amplitude, the duration of the pulses, the number of pulses or combination of different kind of pulses may be used. In the present paper only static compensation-transformers are investigated. Measurement transformers are subdivided

Card 1/3

Measurement Transformers with Unified Signal

sov/119-59-8-3/15

into two groups: Generator- and paramter-measurement transformers. The former need no feeding because for the production of their e.m.f. they use up energy of the quantity to be measured. In the case of parameter transformers an arbitrary parameter of the electric circuit is changed, and for such a transformer a current source is necessary. As examples, the schemes of a generator transformer (Fig 1) and of a parameter transformer (Fig 2) are shown, their mode of operation is discussed, and the formulas for calculation are derived. As examples, the static compensation transformers worked out at the elektroizmeritel'nyy laboratoriya Leningradskogo elektromekhanicheskogo instituta imeni V. I. Ul'yanova (Lenina) (Electro-measuring Laboratory of the Leningrad Electromechanical Institute imeni V. I. Uliyanov (Lenin)) for thermocouples and resistance thermometers are described. The thermocouples belong to the group of generator transformers, and figure 3 shows the wiring scheme of the here described transformer. The latter consists of the thermocouple proper, a threestep amplifier, a phase-sensitive rectifier, and for the elimination of nonlinearities it has an electronic function transformer. For the compensation of the nonlinearity of the thermocouple characteristic caused by temperature variations at

Card 2/3

Measurement Transformers with Unified Signal

SOV/119-59-8-3/15

the cold junctions a compensation bridge is used. In conclusion, a resistance thermometer, the wiring scheme of which is shown by figure 5, is dealt with. By means of a shunt, the sensitivity of this transformer may be varied within a wide range. For the amplification of the signals a three-step alternating current amplifier, to which a vibro-transformer is connected, is used. There are 6 figures and 3 Soviet references.

Card 3/3

DAYDA, Leonid Il'ich; DOBROTVORSKIY, Nikolay Stepanovich; DUSHIN, Yevgeniy Mikhaylovich; MOKIYENKO, Dobroslava Nikolayevna; PREOBRAZHENSKIY Aleksey Alekseyevich; PCHELINSKAYA, Sof'ya Nikodimovna; STAROSEL'TSEVA, Yelena Aleksandrovna; FREMKE, Andrey Vladimirovich, doktor tekhn. nauk, prof.; ORSHANSKIY, D.L.; PREOBRAZHENSKIY, A.A., red.; SOBOLEVA, Ye.M., tekhn.red.

[Electrical measurements; a general course] Elektricheskie izmereniia; obshchii kurs. Izd.3., perer. i dop. [By] L.I. Baida i dr. Moskva, Gosenergoizdat, 1963. 428 p. (MIRA 17:3)

FREMKE, A.V.; MOKIYENKO, D.N.; SHVEGZHDA, O.S.

Static converter of power to a d.c. voltage with voltage stabilizing components using a piecewise linear parabola approximation. Izv. vys. ucheb. zav.; prib. 7 no.4:28-31 '64 (MIRA 18:1)

1. Leningradskiy elektrotekhmicheskiy institut imeni V.I. Ul'yanova (Lenina). Rekomendovana kafedroy elektroismeritel:--noy tekhmiki.

COURCE: IVUZ. Priborostroyeniye, v. 8, no. 1, 1965, 19-25 TOPIC TAGS: three phase / dc converter ABSTRACT: The active 3-phase power is measured by the well-known two-valumeter method; four bridge-type semiconductor rectifiers are cornected to the stage and current transformers, the bridge-current is a compared to the property of the serior of the s		. Til (Ed) (T. √EdA(5) Peo 111 MR. AP5006631 S/0146/68/ 14 TIL4 1 25	
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ABSTRACT: The active 3-phase power is measured by the well-known two-valueter method; four bridge-type semiconductor rectifiers are connected to the stage and current transformers, the bridge continuer of the components whose outputs are component to present a continue of the current (0~-5 ma) in the final output circuit. A principal continue of the components of the overall converger of the components of the overall converger of the continue of the content of the converger of the content of the content of the converger of the content of the content of the converger of the content of the content of the converger of the content of the content of the converger of the content	OURC	DE: IVUZ. Priborostroyeniye, v. 8, no. 1, 1965, 19-25	
Valueter method; four bridge-type semiconductor rectifiers are connected to the state of the sta	COPIC	TAGS: three phase / dc converter	i
	valimi ·	eter method; four bridge-type semiconductor rectifiers are cornected to stage and current transformers, the bridge contributions of the comparers whose outputs are combined to produce a comparer whose outputs are combined to produce a comparer of the current (0~-5 ma) in the final output circuit. A principal converter is explained, and the a/v characterist. If the variations of the overall converter or the accumponents of the overall converter or the accumponents.	rdito to unioni unioni neg

ACCESSION NR: AP5006631

voltage-type and current-type circuits, respectively. Orig. art. has: 4 figures, 7 formulas, and 1 table.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut im. V. I. Lenina (Leningrad Electrotechnical Institute)

SUBMITTED: 13Jan64

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SUB CODE: EE

NO REF SOV: 007

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OTHER: 000

Card 2/2

BOGORODITSKIY, N.P.; VINOKUROV, V.I.; YERMOLIN, N.P.; LEBEDEV, A.A.; POTSAR, A.A.; TERENIN, A.N.; FREMKE, A.V.

Professor Boris Pavlovich Kozyrev, 1895-; on his 70th birthday. Elektrichestvo no.9:89 S *65. (MIRA 18:10)

SOURCE CODE: UR/0105/65/000/009/0089/0089 AUTHOR: Bogoroditskiy, N. P.; Vinokurov, V. I.; Yermolin, N. P.; Lebedev, A. A.; Potsar, A. A.; Terenin, A. N.; Fremke, A. V. ORG: none 34 TITLE: Honoring the 70th birthday of Professor Boris Pavlovich Kozyrev SOURCE: Elektrichestvo, no. 9, 1965, 89 TOPIC TAGS: academic personnel, electric engineering personnel, IR research, spectroscopy On 1 August 1965 was the 70th birthday of Honored Activist of Science and Engineering RSFSR, Laureate of the State Prize, Dr. Techn. Sci., Professor Boris Pavlovich Kozyrev. Professor Kozyrev's life-work has been inseparably connected since 1921 with the Leningrad Electrical Engineering Institute imeni V. I. Ul'yanov (Lenin), where he rose from the post of assistant to that of full professor - head of the Chair of Principles of Electrovacuum Engineering and Scientific Head of the Problems Laboratory of Radiation Electronics and Vacuum Engineering. Boris Pavlovich Kozyrev has made a series of important scientific contributions to vacuum engineering, optical electronics, and infrared engineering. In 1950 he was awarded the State Prize for the development and introduction of photoptical amplification of weak signals, which contributed to the expansion of research into Card 1/2 UDC: 621.38:535

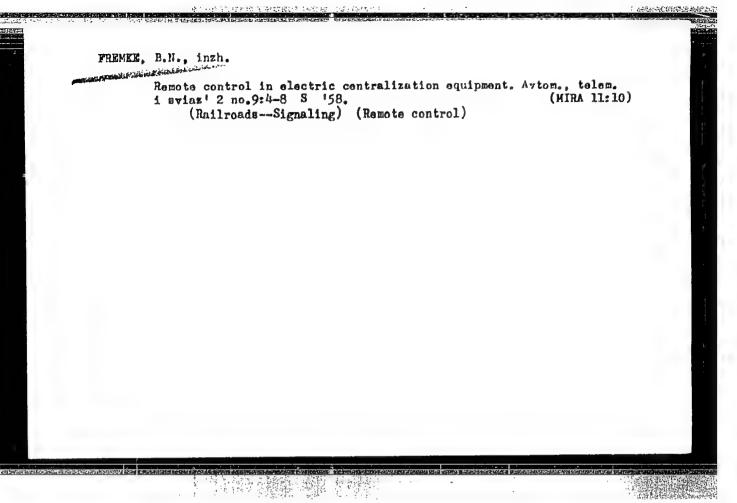
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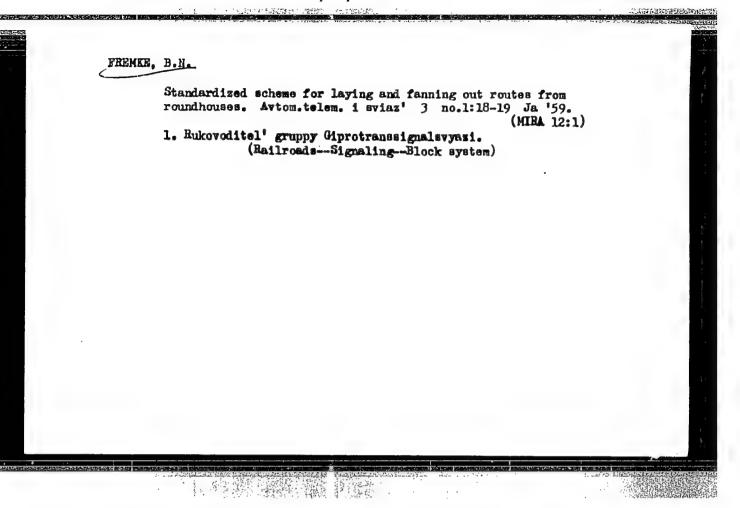
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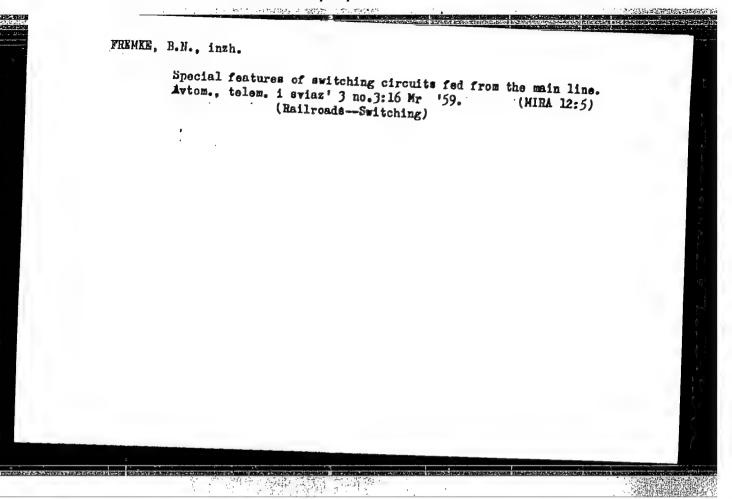
spectroscopy and infrared engineering in the Soviet Union. The Problems Laboratory which he heads is one of the major Soviet centers of research into thermal radiation sensors which are successfully applied in spectroscopy, atmospheric optics, actinometry, limnology, and studies of the processes of photosynthesis. Professor Kozyrev has at various times been a member of or consultant to scientific and technical councils in different research institutes. He is the author of approximately 150 works and inventions. In addition he is an excellent educator, author of guides and textbooks, faculty dean, the mentor of a large number of graduate students, and a civic-minded person who takes an active part in political and social life. He is the holder of many medals, orders, and other awards. Orig. art. has: 1 figure. [JPRS]

SUB CODE: 09, 20 / SUBM DATE: none

Cord 2/2 Hul







FREMKE, B.N., inch. (Leningrad).

New possibilities for electric interlocking. Zhel. dor. transp.
41 no.1:67-69 Ja '59.

(Railroads--Signaling--Interlocking systems)

(MIRA 12:1)

Circuit for consecutive switching of route-relay interlocking switches with feed from the principal power line. Avtom., telem. i sviaz' 4 no.3:8-9 Mr '60. (MIRA 13:7)

1. Giprotranssignalsyss'. (Railroads-Signaling-Interlocking systems)

LOZHKIN, O.V.; PERFILOV, N.A.; RIMSKIY-KORSAKOV, A.A.; FREMLIN, Dzh., professor

Ruclear splitting in a photographic emulsion produced by 930 Mev protons. Zhur.eksp.i teor.fiz. 38 no.5:1388-1398 My '60, (MIRA 13:7)

1. Radiyevyy institut Akademii nauk SSSR. 2. Birmingamskiy universitet, Angliya (for Fremlin).

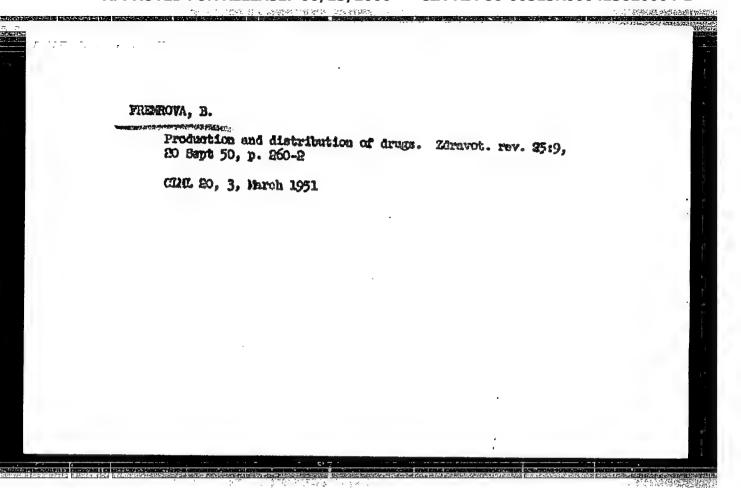
(Frotons)

(Nuclear fission)

FREMMER, Jan., Mudr.

On the methods for the dissemination of health-educational work in the field. Cesk. Edravot. 7 no.8:431-433 S 159

1. Krajsky osvetovy lekar, Nitra. (HEALTH EDUCATION)



PHASE I BOOK EXPLOITATION

CZECH/5373

Fremunt, Marcel, Vladimír Krejný, and Miroslav Zdařil

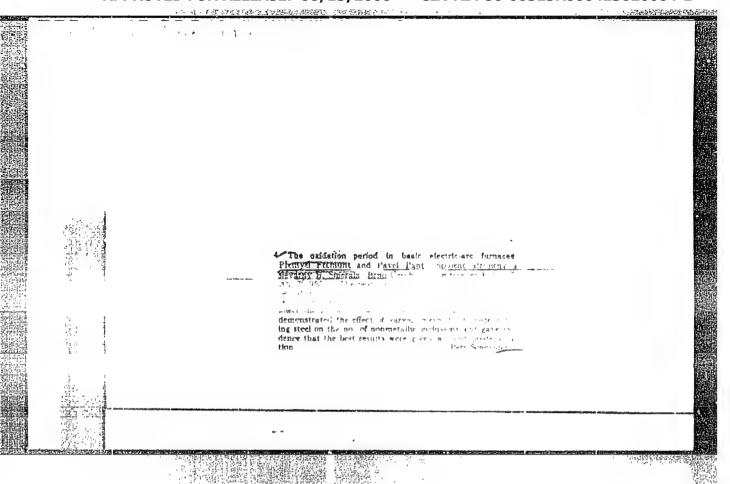
一定的智慧學學學學

Konstrukce pripravku. Díl 2: Přípravky upínací (Construction of Jigs and Fixtures. pt. 2: Work-Holding Jigs and Fixtures) Prague, SNTL, 1960. 319 p. 2,000 copies printed.

Reviewer: Václav Krčmář; Chief Ed.: Ota Kraus; Resp. Ed.: Bohuslav Johan.

PURPOSE: This book is intended for fixture designers and process engineers. It may also be useful to students at mechanical-engineering high schools and schools of higher education.

COVERAGE: The book, Volume 2 of a three-volume edition, contains many examples of the constructions of manual, mechanized, and automatic fixtures for a variety of machine tools. Constructions with various work-holding elements and means, including pneumatic, hydraulic, hydroplastic (doughy plastics), and automatic devices, are presented. Attention is given to constructions of positioning units and to machining methods when using these devices in lot and mass production. Six books are recommended for those who wish to make a more intensive study of fixture design. Part I was written by Miroslaw Zdařli; Vladimír Krejný, wrote Part II. The remainder of the book was written by Marcel Fremunt. No personalities are mentioned. There are no references.



"APPROVED FOR RELEASE: 06/13/2000

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11710

Fremunt, Fremysl, and Lorenc, Adolf

ASTROP

Brithleness of each esteel with 13% chromium

TITLE

PERIOD: 65: Slévárenství, no. 1, 1960, 5 - 8

The author investigates the influence of heat treatment on the notchbar strength of cast steel With 13% Cr, an effect, which is not yet fully accounted for, but is of utmost importance for quality improvement of turbine blades, cast from such steel. A. Lorenc and J. Bezrouk [Ref. 5; Slévárenství 6 (1958), no. 2, 51 - 53] found that the notch-bar strength according to "CSN 42 2906" standard deared thereases dard increases, when steel is quenched at tempering temperature, and F. Maran Ref. 4: Slévárenství 7 (1959), no. 5, 175 - 179] states that quenching of cast-Iner. 4: Ditvarenstvi ((1909), no. 5, 1/5 - 1/9] states that quenching or castings, especially at tempering temperatures, has the greatest effect on the nothings, especially at tempering temperatures. tings; capetially as competing competantes, mas me greatest effect on the normalization of larger castings. Some authors has account to the strength of larger castings. attribute the decrease in notch strength to the brittleness originating at 475°C, out the majority of authors make the tempering brittleness responsible for the notch strength resulting after final heat treatment. Lorenc and Bezrouk made tests with samples, which were kept for a relatively short time at austenitizing

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Brittleness of cast-steel with 13% chromium

temperature and were then tempered for a short time at low temperatures. the heat treatment and the chemical composition of castings changed since that time, new tests were performed to determine, whether conclusions, made by the aftrementioned authors, are still valid. The aim of the first test series was to determine the tempering time and temperature which effect the maximum decrease in notch-bar strength. Prior to re-tempering, the notch-bar strength ranged between 4.5 and 8.0 kg/cm² (average value 5.9 kg/cm² at a hardness of 200 HB), and only those samples were re-tempered, which showed a minimum deviation from the average value. Additional tests were performed with the aim to determine an eventual decrease of notch-bar strength at different heat treatment. The next tests were performed with the aim to determine whether elimination of homogenization and re-heating of samples effects a decrease of notch-tar strength. Some authors claim that tempering brittleness can be influenced by suitable heat treatment after forming. L. V. Smirnov [Ref. 10: Trudy IFM AN SSSR, Uralskiy filial, vypusk 18, 36 - 57] postulates that plastic deformation at high temperatures and low reduction is limited to boundaries of austenite grains. The crystal lattice of boundary layers is thus disturbed, which effects a change in the character of phases causing temper brittleness. Since air cooling was sofar used, additional tests were performed to

Cará 2/3

Brittleness of cast-steel with 13% chromium

Z/036/60/000/001/001/002 A205/A126

determin, whether notch-bar strength is decreasing when samples are water quenched after tempering. In conclusion, the author summarizes the test results as follows: (1) Reheating of samples, water quenched after tempering results in reduced notchbar strength, caused by temper brittleness. (2) This reduced notch-bar strength of water-quenched samples was observed in all cases, regardless of previous heat treatment. (3) Reheating of samples, air cooled after tempering, did not cause a substantial decrease in notch-bar strength, as long as the reheating temperature har strength decreases without increase of hardness, it is not influenced by bar strength decreases without increase of hardness, it is not influenced by bar strength of the described steel types. (6) Exceeding of point $A_{\rm cl}$ (750°C) effects an increase of macro- and microhardness and decreases the notch-bar strength. Bloc.

ASSOCIATION: Smeralovy závody, Brno

SUBMITTED: October 14, 1959

Card 3/3

FREMUNT, Premyel, inz. CSc.; STRANSKY, Karel, inz.

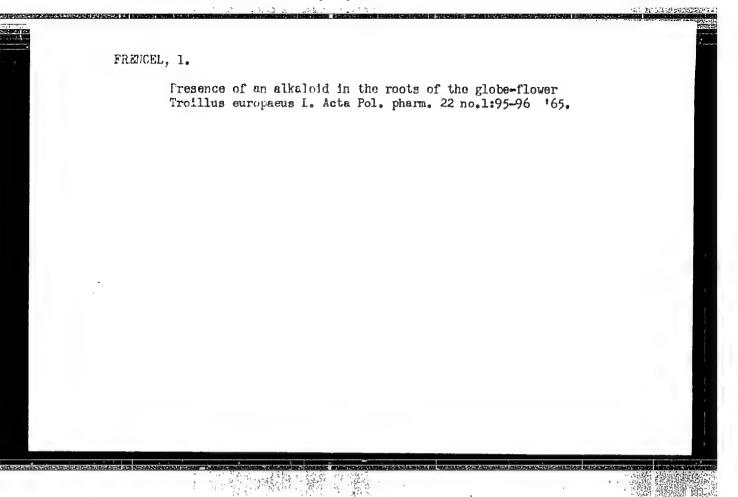
Use of thermodynamics in steel metallurgy. Hut listy 18 no.8:588-594 Ag '63.

1. Smeralovy zavody, n.p., Brno.

FREMUNT, Premyel

Physical conditions for precipitation of blowholes from iron melt. Slevarenstvi 12 no.8:302-307 Ag '64

1. Smeralovy zavody, Brno.



CHOUNSI, D.Garris [Chauncey, D.Harris]; FRENCH, R.A.; ROGACHEVA, E.V.

[translator]; STANOVA, T.A. [translator]

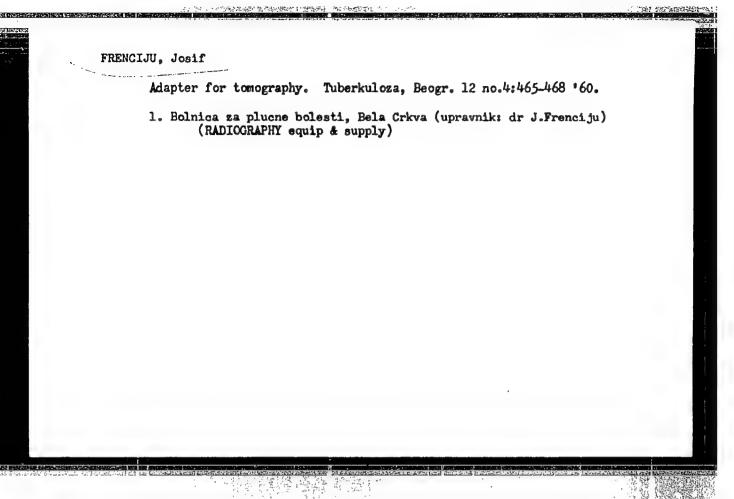
Foreign scientists', statements on Soviet geography. Isv. AN SSSR.

Ser. geog. mo.4:106-109 Jl-Ag '62.

(Geography)

(Geography)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620004-1"



POLAND

BORKOWSKI, Boguslaw and FRENCLOWA, Irena, Chair of Pharmacognosis (Katedra Farmakognozji), AM [Akademia Medyczna, Medical Academy] in Poznan (Director: Prof. Dr. B. BORKOWSKI)

"Chromatographic Analysis and Preparation of Harminio Alkaloids from Plants."

Warsaw, Farmacja Polska, Vol 19, No 6, 25 Mar 63, pp 106-109.

Abstract: Authors review the literature and tabulate the 13 identified natural harminic alkaloids and their sources, as well as the chromatogoraphy conditions used in their isolation and identification by the various authors. Included are previous findings of the author (Brokowski) and coworkers on these alkaloids in three plants of the Zygophylaceae family (Peganum, Zygophyllum, and Tribulus) now extended to the fourth (Guajacum officinale L.). Of the 23 references, about 5 each are Polish, Western, and Russian, and the others in German.

1/1

FRENCLOWA, Irena

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1. Z Ogrodu Farmakognostycznego Akademii Medycznej w Poznaniu (Klurownik: prof. dr. B. Borkowski).

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Vol. 8, No. 1, 1956 KOZLEMENYEI SCIENCE Budapest, Hungary

So: East European Accession, Vol. 6, No. 2, Feb. 1957

FREND, G.M., kand.geologo-mineralogicheskikh nauk

Role of effusive volcanism in the endogenous metallogeny of southern Dzhungaria. Vest. AN Kazakh. SSR 16 no.11:43-45 N '60. (HIMA 13:12) (Dzhungarian Ala-Tau-Ore depsosits)

RUSAKOY, M.P.: FREND, G.H.

Group of Permian volcanic structures in the Katu Mountains (Dzungarian Ala-Tau), Izv. AN SSSR. Ser. geol. 25 no. 3:41-56 Mr '60. (MIRA 13:12)

1. Institut geologii AN KazSSR, Alma-Ata. (Katu Mountains--Volcanoes)

FRENDO, J.; KOJ, A.; ZGLICZYMSKI, J.M.

ENT DO NO

Conversion of sulfur compounds in human blood platelets. Taurine synthesis. Acta biochim.polon. 6 no.3: 277-285 \$59.

1. Zaklad Chemii Fizjologicznej A.M. w Krakowie. Kierownik Zakladu: prof.dr. B. Skarzynski.

(BILE ACIDS AND SALTS blood)

(BLOOD PLATELETS chem.)

HEMATOLOGY

GZECHOSLOVAKIA/POLAND-UDG616.153.963.43:616.155.16(:546.21)-0732.731

FRENDO, J.; KOMARKOVA, A.; Institute of Physiological Chemistry, Cracow, Head Dr W. OSTROWSKI /Original version not given J; Central Bioch. L. Fac. Gen. Med. Ch. Univ. (U. Bioch. L. F.V.L. KU), Prague.

"Capacity of Hemoglobin to Bind Oxygen in Sulfhemoglobinemia."

Prague, Casopis Lekaru Ceskych, Vol 105, No 33, 19 Aug 66, pp 881 - 882

Abstract /Authors' English summary modified /: In blood containing sulfhemoglobin the hemoglobin dissociation curve (expressed by Hill's constant) is shifted to the right. The shift is directly proportional to the content of sulfhemoglobin. 1 Figure, 2 Tables, no references.

KOJ, A.; FRENDO, J.

The activity of cysteine desulphhydrase and rhodanase in animal tissues. Acta biochim. pol. 9 no.4:373-379 162.

1. Department of Physiological Chemistry, Medical School, Krakow. (LYASES) (TRANSFERASES)

POLAND

J. BORTSIFFICZ, J. PRENCO and A. KOJ, Department of Physiological Chemistry, hand, B. SKARZYNSKI, MD, and Department of Medical Chemistry, Readony, Reakow [original versions not given]

"Cystain. Desulphydrame and Rhodanase Accivity in the Sevelopics Chick Embryo."

Kenkow, Yolia Stologica, Vol 10, No 3-4, 1962; pp 169-177.

YEAR OF STREET

Abstract [English article]: The two entymes appeared in the daday embryo and increased to south levels in the third week of development. Cysteins desuithedrans through the formation of Red may induce thodapase formation. Table, 3 diagrams, 2 Polish and 16 Manteen refits.

1.71

FRENDO, J.; KOJ, A.

Studies on the mechanism of the appearance of sulfhemoglobinemia. Pol. med. wewnet. 32 no.7:867-868 162.

1. Z Zakladu Chemii Fizjologicznej AM w Krakowie, Kierownik: Prof. dr B. Skarzynski.

(METHEMOGLOBINEMIA)

POLAND

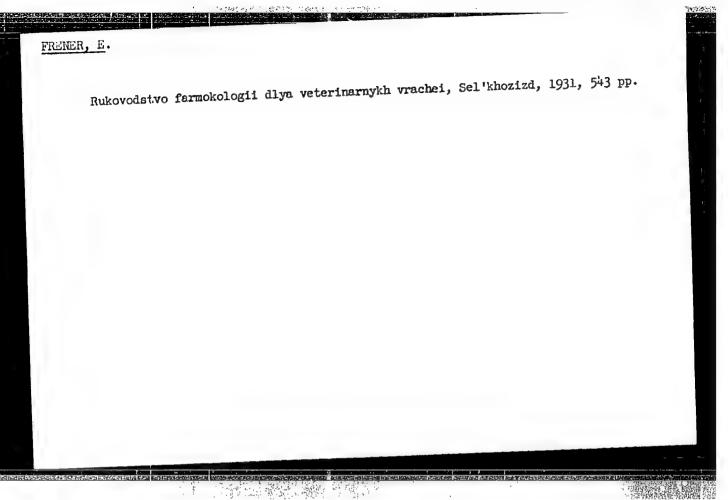
FRENDO, J., KOJ, A., and GORNIAK, A., Department of Physiological Chemistry (Zaklad Chemii Fizjologicznej) (Director: Prof. Dr. B. SKARZYNSKI) and the Second Surgical Clinic (II Klinika Chirurgiczna) (Director: Prof. Dr. J. OSZACKI), both of the AM [Akademia Medyczna, Medical Academy] in Krakow

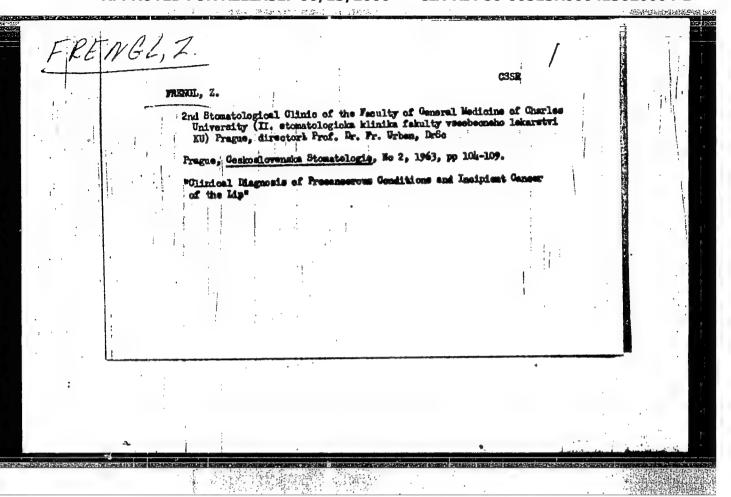
"Activity of Cysteine-desulfhydrase and of Rhodanase in Human Tissues."

Warsaw-Krakow, Przeglad Lekarski, Vol 19. Ser II, No 2, 28 Feb 63, pp 141-143.

Abstract: [Authors' English summary modified] Investigations disclosed that the activity of the two enzymes connected with sulphur transformation is parallel and is highest in the liver, kidneys, gastric mucosa, muscles, salivary glands, and pancreas. Authors discuss the importanco of hydrogen sulphide generation in the tissues in reference to the mechanism in which sulfurhemoglobinemia originates. Of the 14 cited references, 4 are Polish and the others Western. 1/1

Edn.R.M. (In co.ps.); Given Essens Country: Poland Accided Depress: (Set given) Destation for Depletical Accided Medicine (Caklad Accided Depletical), Andreal Medicine (Caklad Accided Depress for Depletical), Andreal Medicine (Depletical), Andreal Medicine (Depletical), Andreal Medicine), Enthow; Director; Prof. B. EMENGEM, of p. 227. Data: "phesiolican of Balphur Compounds in Ruman Thrombocytes: "Cystelse." ((Astron.)) Co-outhbors: (PERIDO, J., Department of Rysiological Chemistry, School of Medicine, ENTROLD Literator; Prof. S. EMENDEM, of Red. 2011CCTESM, J., Department of Rysiological Chemistry, School of Medicine,			/	_	
Country: Poland Acodsaic Degrees: [sot given] Department of Physiological Chemistry, School of Medicine (Zaklad Affiliation: Chemis Fizjologicanj Akademi Medycznej Krakow), Krakow; Director; Prof. B. SMAZYNSKI, dr med Source: Warsaw, Presglad Lekarshi, No 5, 1961, p. 217. Data: "Metabolism of Sulphur Compounds in Human Thrombocytes: "Cysteine." (Abstract). Co-authors: [PENDO, J., Department of Physiological Chemistry, School of Medicine, —Erratow; Director: Prof. S. ERARYNSKI, dr med. ZULICZYESKI, J., Drepartment of Physiological Chemistry, School of Medicine,	- REHING, I.			· ,• ′	
Country: Foland Academic Degrees: [not given] Department of [hysiological Chemistry, School of Medicine (Zaklad Affiliation: Chemis Fiz]ologicans] Akademis Medycanej Krahow), Krahow; Directors Prof. B. SAMZ/RISEJ of med Source: Warsaw, Presplad Leharshi, No 5, 1961, p. 217. Data: "Metabolism of Sulphur Compounds in Human Thrombocytes: "Cysteine." ((betract). Co-authors: [REHIO, J., Department of Physiological Chemistry, School of Medicine, Exchange Director: Prof. S. EKARZUSKI, of rad. SULCZUSKI, J., Department of Physiological Chemistry, School of Medicine,	• • • •	t and the second of the second	- 1 ·	1	
Acodesic Degrees: [not given] Department of Physiological Chemistry, School of Medicine (Zaklad Affiliation: Chemi Fizologicans) Andemii Medycznej Krakow; Errator: Prof. S. SAMZ/MSKI, dr med Source: Warsaw, Preglad Lekarshi, No 5, 1961, p. 217. Data: "Metabolism of Sulphur Compounds in Muman Thrombocytes: "Cysteine." (Abstract). Co-authors: [REHIO, J., Department of Physiological Chemistry, School of Medicine, ERTADO: Director: Prof. S. EKARZYSKI, dr Ed. SELICZYSKI, J., Department of Physiological Chemistry, School of Medicine,	•	KOJ, A. SURNALE (in cape); Given Earce	£ .		
Describes of Edyslological Chemistry, School of Medicine (Zaklad Affiliation; Chemis Finjologican) Akademis Medycanej Krakow), Krakow; Director; Prof. B. SKARZYSKI, dr med Source: Warsaw, Presided Leharshi, No 5, 1961, p. 217. Data: "Matabolism of Sulphur Compounds in Human Thrombocytes: "Cysteine." (Abstract). Co-authors: [PRESIDO, J., Department of Physiological Chemistry, School of Medicine, TRINOW; Director: FONT, S. SKARZYSKI, dr Ed. SOLICZYSKI, J., Department of Physiological Chemistry, School of Medicine,		Country: Poland	: '		
(Abstract). Co-authors: (RENDO, J., Department of Physiological Chemistry, School of Medicine, REGIO, Director: FORT, S. SKREVISKI, of Red. 201.CZTISKI, J., Department of Physiological Chemistry, School of Medicine,		<u>Directions of Physiological Chemistry</u> , School of Medicine (Zaklad Affiliation: Chemis Finjologicans) skademi Medycanej Krakov), Krakov; Director; Prof. B. SKAZENSKI, dr med		·.	
ZECIDO, J., Department of Physiological Chemistry, School of Medicine, Errico; Director: Prof. S. SKARYISSKI, dF red. 2011CATESKI, J., Department of Physiological Chemistry, School of Medicine.		Data: "Notabolism of Sulphur Compounds in Human Thrombocytes: "Cysteine." (Abstract).			
PERIOD Director: Prof. B. SKARLYBSKI, of red. 2611CZYESKI, J., Department of Physiological Chesistry, School of Medicine.	•	· ·			
		RELICZYNSKI, J., Department of Physiological Chemistry, School of Medicine.			
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CZECHOSLOVAKTA

FRENGL, Z., MD.

Second Stomatological Clinic of the Faculty of General Medicine of Charles University (II. stomatologicka klinika fak. vseob. lek. KU), Prasue

Prague, Prakticky lekar, No 5, 1963, pp 180-182

"Clinical Notes on Precancerous and Early Stages of Carcinoma RTU."

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413620004-1

Country: Czechoslovakia

Academic Degrees: MD

Affiliation: Second Stomatological Clinic (II. stomatologicka klinika), KU
/Karlova Universita; Charles University/; Director: Docent Frantisek URBAN, MD
Prague, Prakticke Zubni Lekarstvi, Vol IX, No 5, June 1961,
pp 137-140.

"Occurence of Foreign Bodies in Jaws and Tissues Around Jaws."

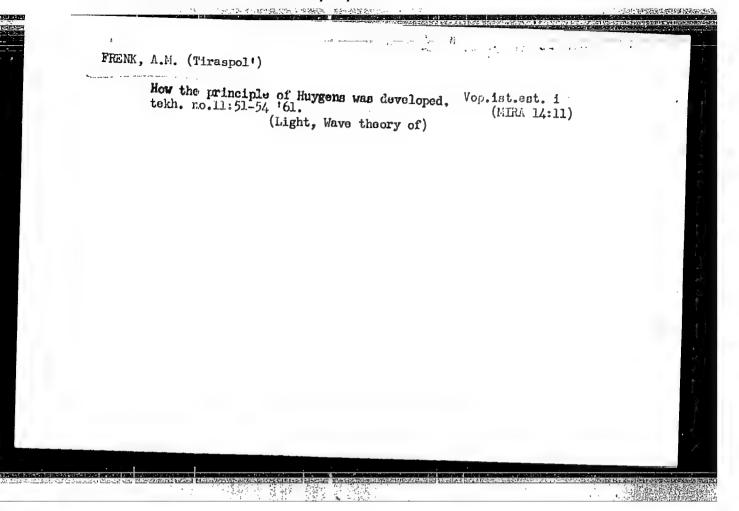
FRENGL, Z.

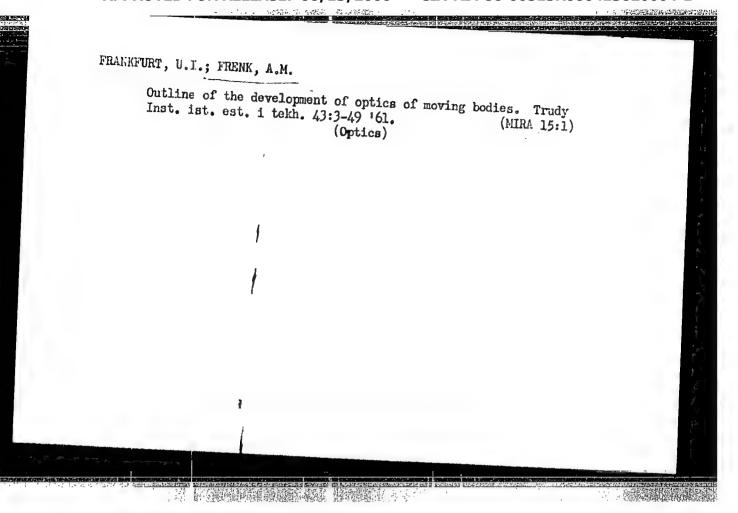
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Multiple follicular cysts in the jaws. Ibid.:43-47

1. II. stematologicka klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. F. Urban, DrSc.).

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620004-1"





FRANKFURT, Usher Ioynovich; FRENK, Aleksandr Moiseyevich; NIKIFOROVSKIY,
V.A., red. izd-va; Sinkina, G.S., tekhm. red.

[Christiaan Huygens, 1629-1695] Khristian Giuigens, 1629-1695.

Moskva, Izd-vo Akad. nauk SSSR, 1962, 325 p. (MIRA 15:10)

(Huygens, Christiaan, 1629-1695)

FRENK, A.M.; SPASSKIY, B.I., prof.

From the history of optics in the 17th century (Huygens' optics). Ist. i metod. est. nauk no.3:192-196 '65.

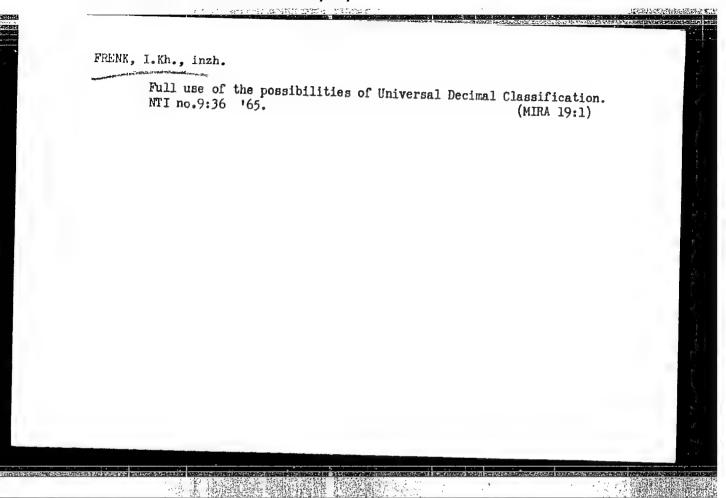
(MIRA 18:12)

KANIVETS, I.I., kandidat sel'skokhosyaystvennykh nauk; NIKITYUK, M.I.; FRENK, D., redaktor; MANDEL'BAUN, M., tekhnicheskiy redaktor

I make the state of the second state of the state of the

[Soil somes of Moldavis and their agricultural characteristics]
Pochvennye raiony Moldavskoi SSR i ikh sel'skokhoziaistvennye
osobennosti. Kishinev. Gos. izd-vo Moldavii. 1955. 207 p.

(Moldavia--Soils) (MIRA 10:2)



ROTAR', F.T.; FRENK, D., red.; TEL'PIS, V., tekhn.red.

[Natural conditions and moisture conservation in Moldavia; from the observations of an agriculturist over a period of many years] Prirodnye usloviia Moldavii i bor'ba za vlagu; iz mnogoletnikh nabliudenii agronoma. Kishinev, Gos.izd-vo "Karta Moldoveniaske." 1959. 148 p. (MIRA 13:9) (Moldavia--Mateorology, Agricultural)

FRENK, I.Kh., inzh.

Correlate and take advantage of the experience with Universal Decimal Classification. NTI no.6:22-23 '63. (MIRA 17:1)

1. Otdel fondov Nauchno-issledovatel'skogo instituta tekhniko-ekonomicheskikh issledovaniy radioelektronike (NIITEIR).

FRENK, L., irih.

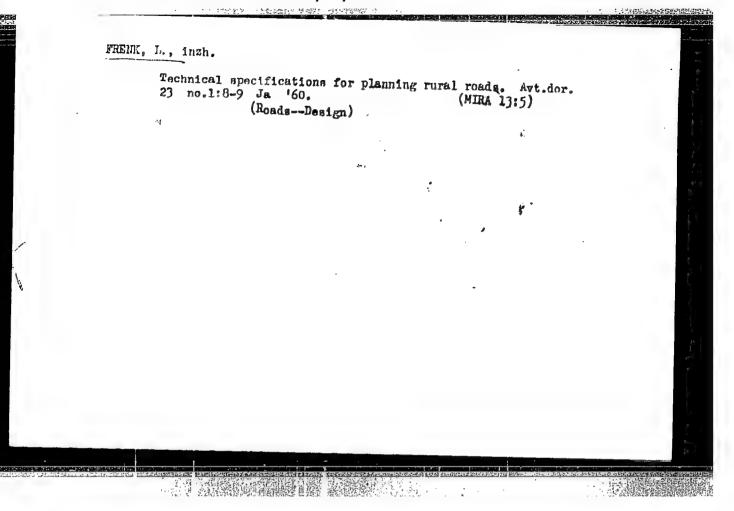
Reorganizing the highway administration in Uzbekistan. Avt.dor.
22 no.3:24-25 Nr '59.

(Uzbekistan-Roads)

(Vzbekistan-Roads)

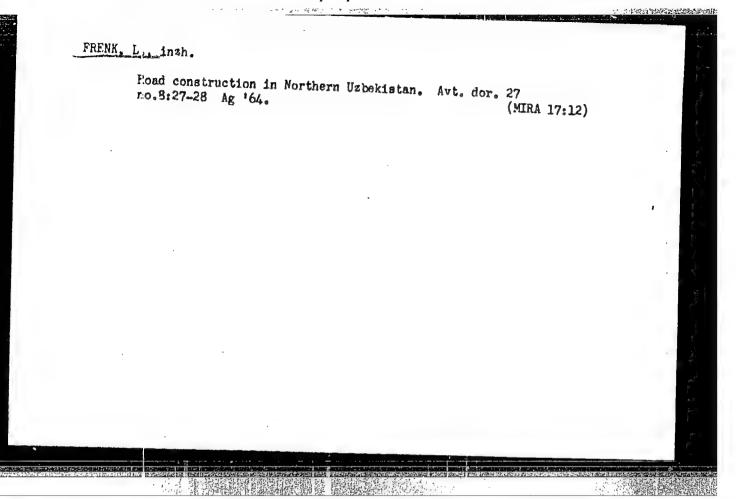
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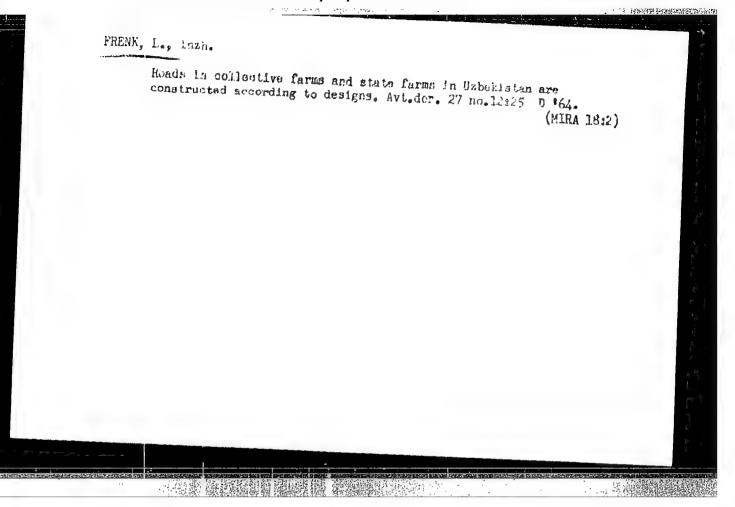
L DEPOSITA METALONICA DE LA CONTROL DE LA CO

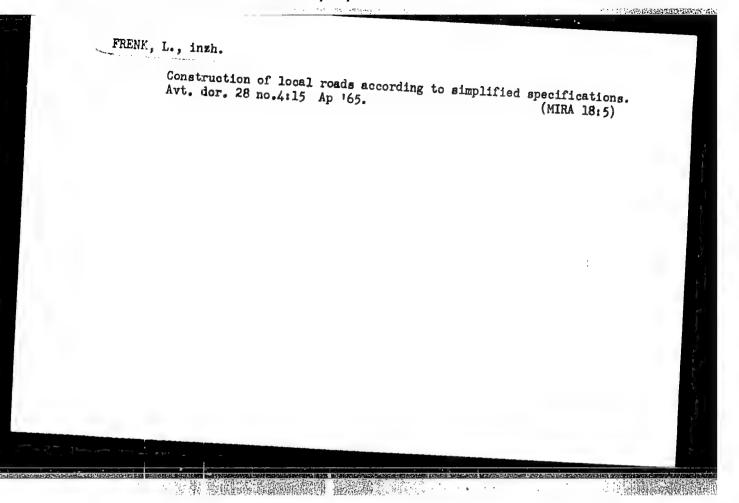


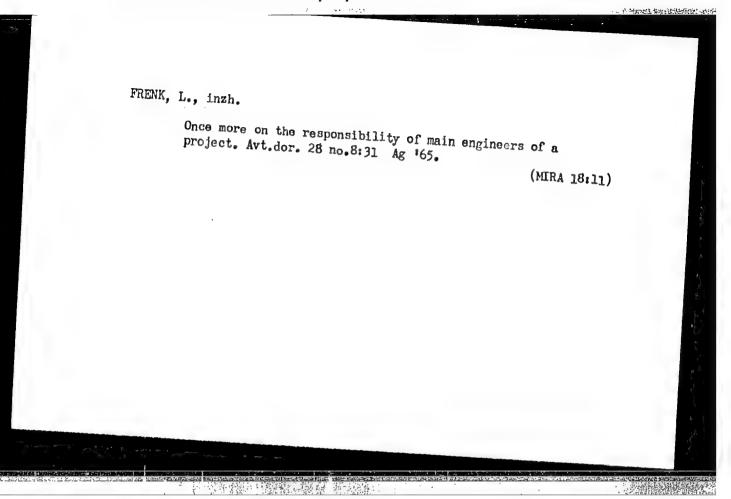
Road maintenance worker Abdumutalib Khalikov. Avt. dor. no.10:23 0 '64. (MIPA 17:12)

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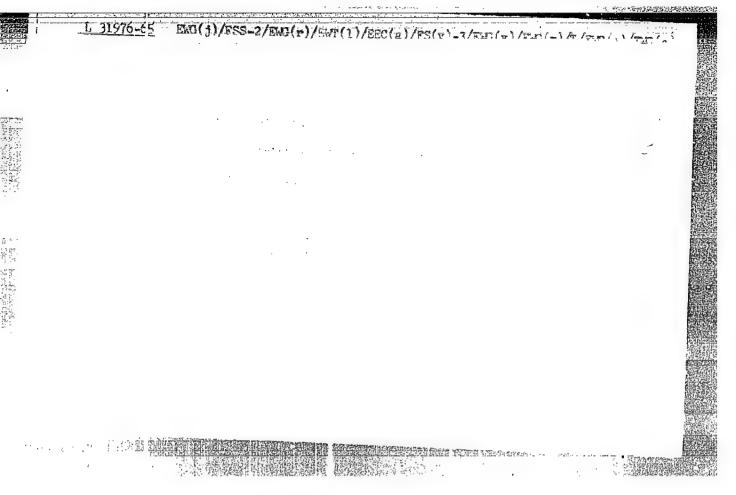




BOGO: LOVSKIY, Andrey Mikhaylovich; ZDANOVICH, Vasiliy Leont'yevich;
MATVEYEV, Yevgeniy Nikolayevich; MUMZI, Georgiy Fedorovich;
MSHANETSKIY, Boris Antonovich; NEBESNOV, Viktor Ivanovich;
NOVIKOV, Georgiy Nikolayevich [deceased]; NUD'GA, Pavel
Korneyevich; SAPRYKIN, Aleksey Petrovich; SACHKOVSKIY,
Georgiy Semenovich; FRENK, M.TS., obshchiy red.; MELEYEV,
A.S., red.; TIKHONOVA, Ye.A., tekin.red.

[Textbook for engineers on marine internal combustion engines]
Uchebnoe posobie dlia mekhanika III razriada po sudovym dvigateliam vnutrennego sgoraniia. Izd.2., perer. Pod obshchei red.
M.TS.Frenka. Moskva, Izd-vo "Morskoi transport," 1959. 711 p.
(Marine engineering) (WIRA 12:9)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620004-1"



L 61700_65 EWG(r)/EPF(e)/EWT(1)/EWT(m)/EWG(m)/T-2 ACCESSION NI: AP5017883 Pz-0/17-4 Title: Turbocooler. Class 46, No. 153488 SCURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 11, 1965, 165 TOPIC TAGS: aircraft air conditioning, flight suit, air conditioner, turboccooler ABCTRACT: This Author Certificate introduces a turbocooler for air-conditioning alreraft capins; and flying suits. The cooler consists of an axial our ressor and a turbine mounted on the same shaft. To provide adequate lubrication in the whole range of speeis, the labricant is supplied by means of wicks and see thes. ALGUCIATION: none SUBMITTED: 2:Apr62 ENCL: 00 SUB CODF - AC, PH NO REF GOV: COO OTHER: 000 ATD PPESS: 4037 Card 1/1

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                   3 -2 1 V Mat: AP5007513
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                Sokolor, G. I.; Frenk, M. Ts.; Ilupina, N. A. Adlar, M. V.; Lovchev,
               Lopavok, 1. S.
               The: 'urborefrigerator for mabin air conditioning systems in large passenger's
              FURCE: Byulieten' izobreteniy i tovarnykh znakov, no. 4, 1965, 121
               PAGS: passenger aircraft, air conditioning equipment
            ABSTRACT: This Author Certificate presents a turbor@fricarator | was of we find
             turbine and compressor, for cabin air conditioning a second
                      The man former at more a term of the more than the second of the second 
                                                                    BEAK which is located helps the turn rate part of the terms
                                                        mirroused air withdrawn from the inlet notes with throttles controlling the off flow. The public connected
                                       for the oil feed channels to the bearings and the annular racking
                    -mowers of the bearings.
         ADECLIATION: none
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"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000413620004-1

	SOURCE CODE: UR/0413/66/0007020/0199/0199
INVENTOR: Adle G. I.; Frenk, H	tr, H. V.; Gorbachev, L. H.; Lapavok, V. S.; Lovchev, S. V.; Sokolov, I. Ta.; Churikov, Ya. P.
ORG: none	
TITLE: Ventila	ting unit for aircraft. Class 62, No. 187540
SOURCE: Izobre	teniya, promyehlennyye obraztey, tovarnyye znaki, 'no. 20, 1966, 199
TOPIC TAGS: mi mir conditionin	rcraft cabin environment, aircraft cabin equipment, centrifugal blower, ag equipment
which contains ground-based an	a fan with a drive. To assure the unit's efficient operation in a dairborne applications, the fan is mounted on a separate shaft and is
operated by an	electric drive through an exial over-riding clutch; a centrifugal for operation on turbine drive. [WA-98]
operated by an clutch is used	
operated by an clutch is used	for operation on turbine drive. [WA-98]
operated by an clutch is used	for operation on turbine drive. [WA-98]
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operated by an clutch is used SUB CODE: 01,	for operation on turbine drive. [WA-98] 13/ SUBM DATE: 10Feb64
operated by an clutch is used SUB CODE: 01,	for operation on turbine drive. [WA-98] 13/ SUBM DATE: 10Feb64

ACC NR. AP7005598

SOURCE CODE: UR/0413/67/000/002/0029/0029

INVENTOR: Adler, M. V.; Churikov, Ye. P.; Frenk, M. Ts.

ORG: None

TITLE: A turbocooler for air conditioning systems. Class 17, No. 190376

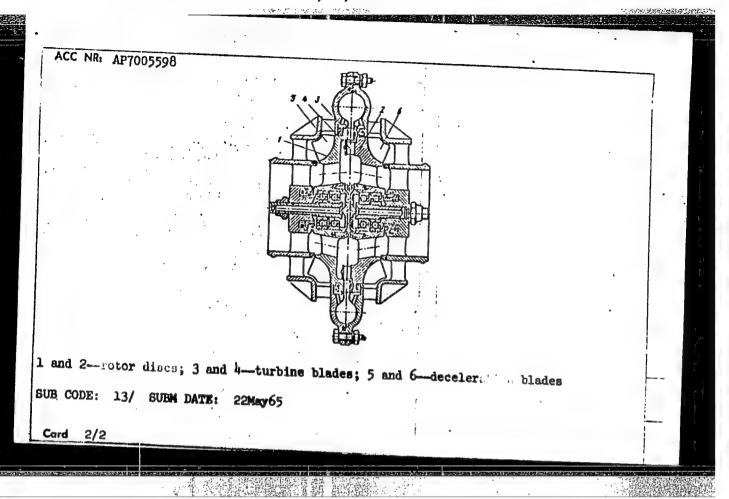
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1967, 29

TOPIC TAGS: air conditioning equipment, turbine blade, cooling

ABSTRACT: This Author's Certificate introduces a turbocooler for air conditioning systems. The installation contains a sectional housing with guide vane assembly in the plane of symmetry and cantilever axles with discs mounted on them. The operational reliability of the unit is increased without loss of efficiency by reducing the rotational speed. The discs have turbine-type working blades located radially one after the other in the plane of symmetry of the housing at an angle which produces opposing rotation. Deceleration blades are mounted on the external sides of the discs.

Card 1/2

UDC; 621.572/576,629.13.01/06



At the March exhibitions and fairs. Vnesh. torg. 41 no. 3:24-26
(61.

(Leipzig-Germany-Exhibitions)
(Utrocht, Netherlands-Exhibitions)
(Cairo-Agriculture-Exhibitions)

KARELI, L.; SARYCHEV, N., inzh.; FRENKEL!, A.

Erection of bridge footings on high pile grillage foundations.

Prom.stroi.i inzh.soor. 4 no.2:22-29 Mr-Ap '62. (MIRA 15:11)

(Nikolaev—Bridges—Foundations and piers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000413620004-1"

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Test motortrucks on Siberian highways. Avt. transp. 36 no.5:30 My (MIRA 11:6)

(Siberia--Motortrucke--Testing)

FRENKEL, Aleksandra; KASPERLIK, Anna

Leukecytic immunelogy in the Clinic of Internal Diseases. Pelski Tyged. lek. 16 ne.7:265-268 13 F '61.

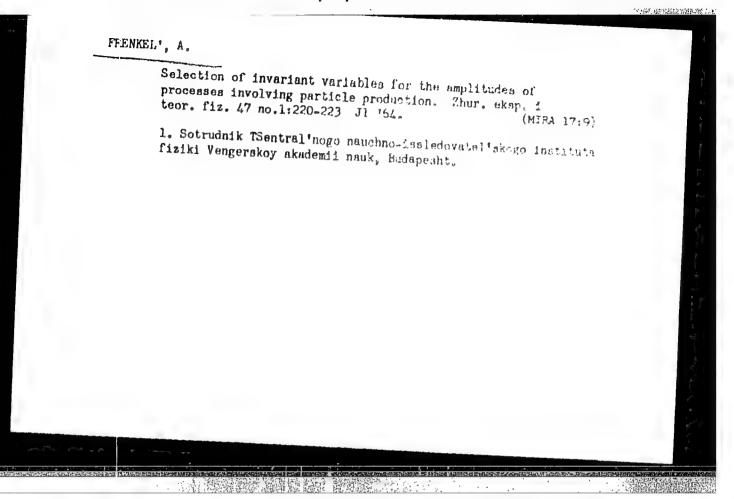
1. Z Oddzialu Chereb Wewnetrznych Instytutu Gruzlicy w Warszawie; kierewnik: pref. dr med. Walenty Hartwig.

(LEUKOCYTES) (ANTIGEN ANTIBODY REACTION)

MIGDALSKA, Zofia; FRENKEL. Aleksandra

A Case of Di Gugliemio disease. Polskie arch. med. wewn. 24 no.6:
1071-1078 1954.

1. Z I kliniki chorob wewn. Akademii Medycznej w Warszawie;
kierownik; prof. dr. med. A.Biernacki
(POLYCYTHEMIA VERA
erythremic myelosis, pathol.)



3.2410

\$/627/60/002/000/025/027 D299/D304

AUTHORS:

Fenivesh, E., Frenkel', A., Telbits, F., Pernegr, Ya., Petrzhilka, V., Sedlak, Ya., and Vrana, I.

TITLE:

Investigating high-energy electron-photon cascade in

SOURCE:

International Conference on Cosmic Radiation. Moscow, 1959. Trudy. v. 2. Shirokiye atmosfernyye livni i kaskadnyye protsessy, 307-310

TEXT: The energy spectrum of the primary photon was determined; the energy spectrum of pairs formed at depths of up to 1.5 units was studied. The obtained spectra were compared with the distribution based on Bethe-Heitler's theory, and with that based on Migdal's formulas (a further development of the Landau approximation). The energy E of the primary photon was determined by the Chudakov-Perkins effect, by the longitudinal and lateral shower development, and also by Pinkau's method. The values for the primary energy,

Card 1/ 3

Investigating high-energy ...

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obtained by shower development in the approximations A and B, were underrated. A more accurate energy estimate is obtained by means of the curves of A. A. Varfolomeyev and I. A. Svetlolobov (Ref. 11: ZhETF, 36, 1771, 1959). The data of Ref. 11 yielded a higher value for the primary energy. In the following, a primary energy of 2.10 12 ev. is assumed. The energy of electron pairs was determined either by E. Lohrmann's method (Ref. 15: Nuovo Cim., 2, 1029, 1955) or by measuring multiple scattering. In some cases both methods were used. The results are shown in a table and in 2 figures which also exhibit (for comparison) two theoretical curves corresponding to Bethe-Heitler's and Migdal's formulas, respectively. The authors conclude that by studying only one or a few cascades, no definite decision can be made as to the validity of either Bethe-Heitler's or Landau-Migdal's theory. In this light, the present investigation should be considered as a contribution to the general statistics of cascades, investigations of a larger number of shower cascades being required before reaching a definite conclusion. The authors express their thanks to Professors Yanoshi, Farkas and Danysh. There

Card 2/3

Investigating high-energy ...

S/627/60/002/000/025/027 D299/D304

are 2 figures, 2 tables and 18 references: 12 Soviet-bloc and 6 non-Soviet-bloc. Thereferences to the English-language publications read as follows: D. H. Perkins, Phil. Mag., 46, 1146, 1955; K. Pin-kau. Phil. Mag., 2, 1389, 1957; J. C. Butcher, B. A. Chartres and H. Messel. Nuc. Phys., 6, 271, 1958; J.Nishimura and K. Kamata, Prog. Theor. Phys., 7, 185, 1952.

ASSOCIATION:

Tsentral'nyy issledovatel'skiy institut fiziki, otdeleniye kosmicheskikh luchey (Central Research Institute of Physics, Cosmic Ray Section, Budapest); Fizicheskiy institut Akademii nauk (Physics Institute of the Academy of Sciences, Prague)

Card 3/3

FENYVES, Ervin; FRENKEL, Andor; PETRZILKA, V.; SEDLAK, J.; VRANA, J.

Investigation of high-energy electron-photon cascade in emulsion.
Koz fiz kozl MTA 7 no.4:183-188 *59. (EEAI 9:8)

1. A Magyar Tudomanyos Akademia Kozponti Fizikai Kutato Intezete, Kozmikus Sugarzasi Osztaly (for Fenyves, Frankel and Telbisz). 2. Csehszlovak Tudomanyos Akademia Fizikai Intezete, Karoly Egyetem Muszaki es Magfizikai Fakultasa (for Pertzilka, Sedlak, Vrana) (Electrons) (Photons) (Cascades)

BOZOKI, Gyorgy; DOMOKOS, Gabor; FENYVES, Ervin; FRENKEL, Andor; GOMBOSI, Eva; BEBEL, D.; LANIUS, K.; MEIER, H.W.

Further investigation of high-energy jet. Koz fiz kozl MTA 7 no.6: 374-377 *59. (ERAI 9:8)

1. Kozmikus Sugarzasi Laboratorium, Kozponti Fizikai Kutato Intezet, Magyar Tudomanyos Akademia (for Bozoki, Domokos, Fenyves, Frenkel, Gombosi). 2. Nemet Tudomanyos Akademia Magfizikai Intezete, Zeuthen (for Bebel, Lanius, Meier)

(Particles) (Photons) (Cascades)

FRENKEL, A.

Semi-classical description of high-energy electron scattering on heavy nuclei. Acta phys Hung 13 no.3:321-331 161.

1. Central Research Institute for Physics, Cosmic Ray Laboratory, Budapest. Presented by Lajos Janossy.

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FRENKEL, Ander

Remarks about the phenomenological investigation of The interaction. Koz fiz kozl MTA 9 no.3:107-111 '61.

1. Kozmikus Sugarzasi Laboraterium

FRENKEL, Andor; TELBISZ, Ferenc

The European Center for Muclear Physical Research. Fiz szemle 11 no.2:

1. Kozponti Fizikai Kutato Intezet Kozmikus Sugarzasi Laboratorium.

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3°335' \$/058/62/000/005/019/119 4001/4101

AUTHOR:

Frenkel, Andor

TITLE:

On one phenomenological method of studying pion-pion interaction

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 5, 1962, 41-42, abstract 5A361 ("Magyar tud. akad. Közp. fiz. kutató int. közl.", 1961, v. 9, no. 3, 107-111, III, IX, Hungarian; Russian and English summaries)

TEXT: The method for determining effective target mass proposed by Birger and Smcrodin (RZhFiz, 1959, no. 11, 24419; 1960, no. 6, 13334) is described. The method was employed previously by Avunor-Renner et al. (RZhFiz, 1961, 3B482) for studying interactions of cosmic radiation particles with Al nuclei in the energy range of about 30 Bev. Experiments were carried out by means of a Wilson chamber. Peaks near values of 1, 2 and $3\mu(\mu$ is mass of pion) were found in distribution of effective target mass. The author notes that there is no clear-cut correlation between these peaks and virtual pions of the nucleon mesonic cloud. With the aim of clarifying the role and some specific features of pion-pion interaction in processes of multiple particle production, it is [Abstracter's note: Complete translation]

Card 1/1

8/058/62/000/011/008/061 106=/A10:

AUTHORS:

Frenkel, A.

TITLE:

Semi-classical description of high-energy electron scattering on

PERIODICAL:

Referativnyy zhurnal, Fizika, no. 11, 1962, 36,

abstract 115277 ("Acta phys. Acad. scient. hung.", 1961, v.13, no. 3, 321 - 331, English; summary in Russian)

In a quasi-classical approximation a formula is obtained for the TEXT: scattering phases of fast electrons on spherically-symmetric heavy nuclei. The potential distribution W (r) in the nucleus is calculated on the basis of Hoffstadter's data on the charge distribution in the nucleus; numerical values of the W (r) function for gold are given. The applicability limits of the method and the relative error in the differential cross section due to the error in the phase calculations are discussed.

[Abstracter's note: Complete translation]

N. Dushin

Card 1/1

FRENKEL, Andor

Stability problem of zero mass particles. Koz fiz kozl MTA ll no.6:439-447 *63.

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